

# TYPE FT-1 FLEXITEST SWITCH, SWITCH ARRANGEMENT & INTERNAL SCHEMATIC

REF.  
10 POS SW.  
UPPER SECTION  
FRONT VIEW  
(CVR REMOVED)

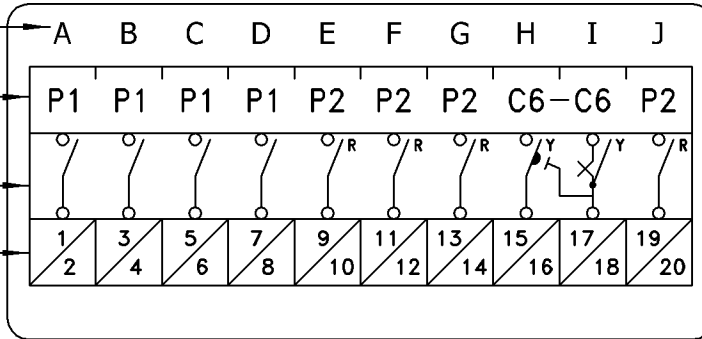


POLE  
POSITIONS

SWITCH  
ARRANGEMENT

INTERNAL  
SCHEMATIC

TERMINAL NO.s  
(REAR OF SW)



ARRANGEMENT: P P P P T T T 6-6 T

**STYLE No:** 991AB21G01

**CODE No:** B21

**CLASS 1E:** NO

No. POLES: 10

No. POTENTIALS: 8

No. CURRENTS: 2

TIE BARS: NONE

DRILL PLAN: 129A500

INT SCHEMATIC: 991AB21

Table 1 - Description of Poles for FT Flexitest Switches

| Pole Type              | Pole Designation | Handle Color | Description & Schematic Symbol   |
|------------------------|------------------|--------------|--|
| Potential              | P1               | P            | Black <sup>†</sup><br>Potential, non-shorting blade.                   |
| Current                | C1               | C            | Black <sup>†</sup><br>Current, non-shorting, with test jack and blade. |
| Current ††<br>Shorting | C1-C1            | C-C          | Current shorting (make-before-break), with test jack and blade.        |
|                        | C1-A1            | C-A          | Current shorting (make-before-break), with blade only.                 |
|                        | C1-B0            | C-B          | Current shorting (make-before-break), with stud only.                  |
|                        | C1-D0            | C-D          | Current shorting (make-before-break), with test jack only.             |
|                        | C1-E1            | C-E          | Current shorting (make-before-break), with shorting blade only.        |
|                        | C1-S0            | C-S          | Current shorting (make-before-break), with fixed shorting strap.       |
| Other                  | D0               | D            | None<br>Current test jack, no blade.                                   |
|                        | S0               | S            | None<br>Fixed shorting strap.  |
|                        | X0               | X            | None<br>Empty pole position.   |

† = See Table 2 for complete list of color handles.

†† = Current shorting poles can span up to 5 positions, and can have any combination of color handles (ex: C1-C7-C5-C2-A4).

Table 2 – Handle Colors

| Pole Type | Pole Designation | Handle Color |
|-----------|------------------|--------------|
| Potential | P1               | P            |
|           | P2               | T            |
|           | P3               | H            |
|           | P4               | V            |
|           | P5               | G            |
|           | P6               | Y            |
|           | P7               | Z            |
|           | P8               | W            |
|           | P9               | O            |
| Current   | C1               | C            |
|           | C2               | R            |
|           | C3               | 3            |
|           | C4               | 4            |
|           | C5               | 5            |
|           | C6               | 6            |
|           | C7               | 7            |
|           | C8               | 8            |
|           | C9               | 9            |

**TEST PLUGS:**

**INDIVIDUAL CURRENT CIRCUIT TEST PLUG.**  
STYLE No: 7B4618G04

**SEPARATE SOURCE TEST PLUG (10 POS).**  
STYLE No: 1164046

**IN-SERVICE SERIES TEST PLUG.**  
STYLE No: 129A062G01

1

ECO EM2008-1197

The information contained in this document has to be kept strictly confidential. Any unauthorized use, reproduction, distribution or disclosure to third parties is strictly forbidden.  
ABB reserves all rights regarding Intellectual Property Rights.

DTTR/DATE: R.Novoseletsky 12/4/2008

CHKR/DATE: M.Uriguen 12/4/2008

APPR/DATE: Tim Masters 12/4/2008



SOFTWARE TYPE:  
AUTOCAD 2006

ENG. REF: MFG DWG: FT1-B21  
GEN DWG: 1616C24

TITLE:  
**FT-1 SWITCH  
POLE ARRANGEMENT & INT SCH**

© Copyright 2008 ABB  
All rights reserved

SIZE:  
**A**

DWG. NO:  
**991AB21**

REV:  
**1**

ABB Protective Relays and Switches, Coral Springs FL, U.S.A.

SCALE: NONE SHEET 1 OF 1